

(12) **UK Patent Application** (19) **GB** (11) **2 205 496 A**
 (43) Application published 14 Dec 1988

(21) Application No 8813175
 (22) Date of filing 3 Jun 1988
 (30) Priority data
 (31) 87208915 (32) 6 Jun 1987 (33) CN

(71) Applicant
Changchun Gelatin Manufacture factory
 (Incorporated in China)
 3-8 Xiaonanling Street, Chanchun, Jilin, China

(72) Inventors
Yuanwu Ni
Zhi Wang
Jingtian Lu

(74) Agent and/or Address for Service
Pollak Mercer & Tench
 High Holborn House, 52-54 High Holborn,
 London, WC1V 6RY

(51) INT CL⁴
A61F 7/03 A61L 15/03

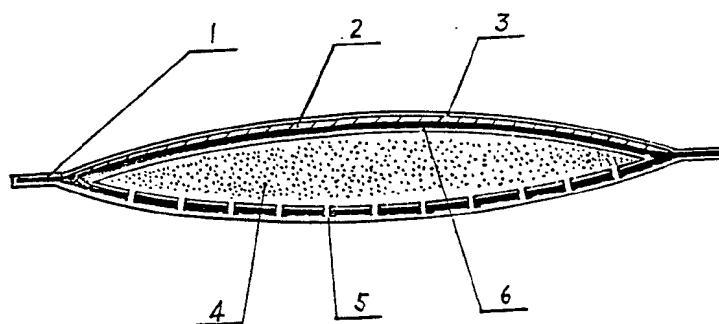
(52) Domestic classification (Edition J):
A5B LG

(56) Documents cited
GB 1560143

(58) Field of search
A5B
A5R
Selected US specifications from IPC sub-classes
A61F A61K A61L

(54) **Therapeutic pack**

(57) The pack for hot compress treatment consists of a basic bag (1) which is lined on its interior with perforate plastics film and carries a drug (2) plus thermogenic materials (4) and is enclosed in a packet 3. The drug is absorbed into or sprinkled or smeared directly on to the surface of the basic bag (1). The pack combines a hot compress treatment with drug therapy for increased therapeutic effect.



A-A

FIG 2

GB 2 205 496 A

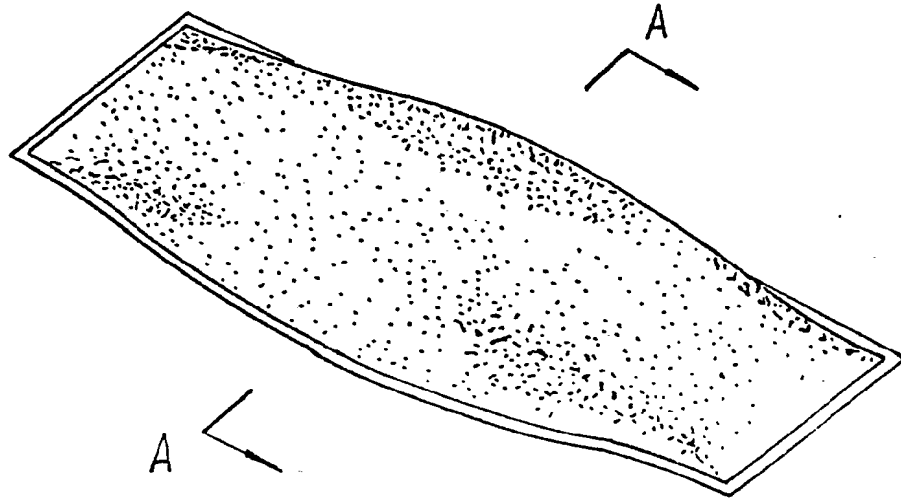
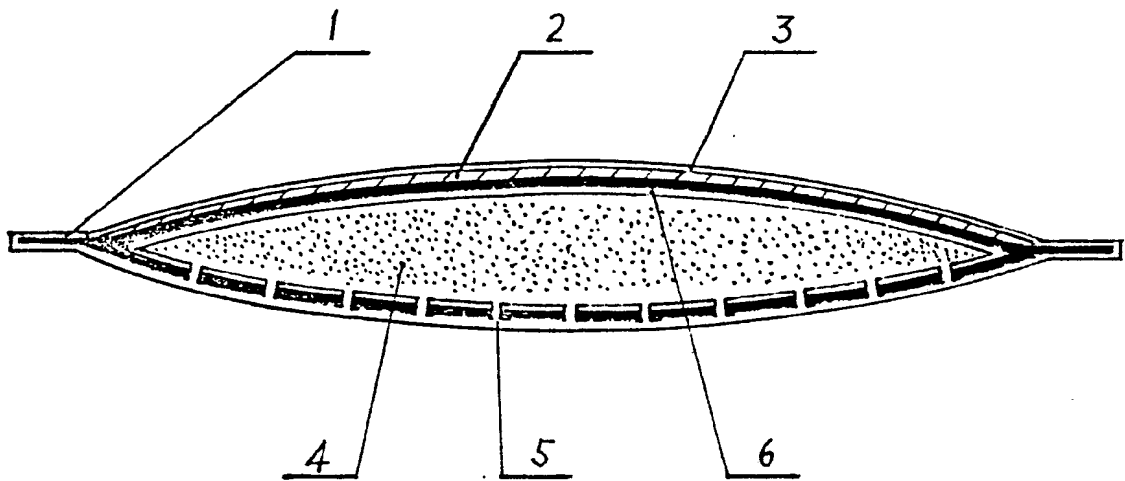


FIG 1



A-A

FIG 2

MEDICINAL OR THERAPEUTIC PACK

Description

The present invention relates to a medicinal or therapeutic pack for thermal treatment.

At present, the treatment of some diseases, such as rheumatic fever, arthritis, scapulohumeral peri-arthritis and damage to tendon and soft tissues, is dependent on drug application and physiotherapy. For example, herb paste is applied onto the surface of the patient's skin. US Patent 813491 discloses that a therapeutic pack for thermal treatment which possesses two compartments separated by a fracturable diaphragm includes liquid and solid thermogenic materials. The diaphragm is broken down by pressure when the pack is in use. As thermogenic materials are mixing, heat in the pack is released for thermal treatment. The manufacture of this pack is complex and its therapeutic effect is not good enough because it cannot combine drug treatment with hot compress.

The object of this invention is to make a therapeutic pack which combines hot compress with drug therapy for increased therapeutic effect and shorter curative time for the patient. Manufacture of the pack, which is also more convenient in use, is simpler than that of the pack known in the prior art.

The invention accordingly provides a medical or

therapeutic pack for thermal treatment, comprising a bag, at least one medicament or therapeutic agent associated with the bag, thermogenic material contained within the bag and a closed outer container in which the bag is received. According to the disease or condition to be treated, the medicament(s) or therapeutic agent(s), such as chemicals or medicinal herbs, can be appropriately selected. Preferably, there are many holes for air in the basic bag containing thermogenic materials. When the pack is used, the outer container, for example a closed packet, is opened and, as a result, air enters the basic bag by passing through the holes. After the pack has been kneaded with hands for a short time, it is put on the affected skin of the patient for treatment. The medical and/or therapeutic effect of the pack of this invention can be much greater than that of fumigant, lotion to the body and some chemicals suitable for external application. The pack of this invention can provide the effects of both hot compress and drug therapy. Moreover, hot compress can increase the permeating ability of drugs, especially medicinal herbs, which increases the therapeutic effect of the pack.

An embodiment of the invention will now be described by way of example with reference to the drawings, in which

Fig. 1 is a perspective view of a medicinal/therapeutic pack for thermal treatment, and

Fig. 2 is a sectional view on a larger scale on the line A-A shown in Fig. 1.

The principal features of the pack are:

1. basic bag
2. layer of drugs
3. closed packet

4. thermogenic materials
5. holes for air
6. film

The pack shown in the drawings consists principally of a basic bag 1, a layer of drugs 2, thermogenic materials 4 within the basic bag and a closed packet 3 outside the basic bag. The basic bag 1 can be made of any ventilating material, such as cotton fabric. The inner surface of both sides of the basic bag is covered with a layer of dense membrane, such as a plastics film, with many holes 5. There are for example at least three lines of holes and twenty holes in each line in the membrane covering one or both sides of the basic bag.

The drugs 2 associated with the basic bag are selected according to the disease or condition to be treated. The selected drugs are absorbed into or sprinkled or smeared directly on to one or both sides of the basic bag. The thermogenic material consists in this example of iron powder, activated charcoal, vermiculite, SiO_2 , NaCl and water. These materials should be mixed thoroughly and put into the basic bag before sealing thereof. Finally, the sealed basic bag is put into the plastics packet 3 which could otherwise be a plastics box.

An example of the manufacturing process of the medicinal therapeutic pack for thermal treatment is as follows:

1. Preparation of the thermogenic ingredients (for each pack):

iron powder	25-45g
activated charcoal	1-10g
vermiculite	1-5g
SiO_2	2-8g
NaCl	1-4g

water

5-13g

2. The prescription of medicines mixed together which is used for applying drugs to the basic bag (for each pack):

5	radix dugelicae pubescen	150-350g
	rhizoma seu radix notopterydii	150-350g
	radix aconiti preparata	100-200g
	radix aconiti Kusnezoffii	100-200g
	Pinus tabulaeformis Carr.	200-300g
10	radix ledebouriellae	200-300g
	rhizoma curcumae longae	200-300g
	flos carthami	200-300g
	cortex einnamoni	200-300g
	camphor	50-150g

15 An extract of the abovementioned medicines is made by ethanol reflux extraction and absorbed into or sprinkled on the surface of the basic bag 1 which is covered on its inside by a thin plastic film with holes for air.

20 Finally, thermogenic materials are put into the basic bag which will be sealed and then covered with the closed plastic packet.

CLAIMS

1. A medicinal or therapeutic pack for thermal treatment, comprising a bag, at least one medicament or therapeutic agent associated with the bag, thermogenic material contained within the bag and a closed outer container in which the bag is received.
2. A medicinal or therapeutic pack according to claim 1, wherein the outer container is a closed packet.
3. A medicinal or therapeutic pack according to claim 1 or 2, wherein the bag is made of a ventilating material.
4. A medicinal or therapeutic pack according to any preceding claim, wherein the inner surfaces of the bag are covered with a membrane layer.
5. A medicinal or therapeutic pack according to claim 4, wherein the membrane layer covering at least one surface of the bag is perforate.
6. A medicinal or therapeutic pack according to any preceding claim, wherein the medicament or therapeutic agent is coated onto the surface of the bag.
7. A medicinal or therapeutic pack according to any of claims 1 to 5, wherein the medicament or therapeutic agent is absorbed into the material of the bag.
8. A medicinal or therapeutic pack for thermal treatment, substantially as hereinbefore described with reference to the drawing.